

Work Order ID 121189
June-16-14 2:25:43 PM

Work Order ID 121189

121189

Page 1

Item
Rev
Item
Star
Req
Ref

Item ID: 647.3911

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: 212 Upper Deflector

Start Date: 6/09/14

Start Qty: 19.00

19

Cust Item ID:

Required Date: 6/16/14

Req'd Qty: 19.00

19

Customer:

Reference:

App

Approvals: Process Plan: MLJ

Date: 14-06-18

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

NR1

Stop

NR2

Seq
Wor

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

647.3900

C

100

BAND SAW

0.00

100

Bandsaw

Memo

0.00

Jeaspa Bandsaw

Cut Blank at 34.125"

*** ONE BLANK MAKES TWO PARTS***

B.A 14/07/26
OK 14/07/26

8
+ 2
10

DAS
08
9-89

130

*1

QC

Quali

110

HAAS CNC VERTICAL MACHINING #1

0.00

110

HAAS 1

Memo

0.00

HAAS CNC vertical machine #1

1-Machine per folio FB299

DWG REV: C

FOLIO REV: AA

B.A 14/07/28
OK 14/07/28

20

140

*1

Outs

Outs

2- deburr and break all sharp edges

DQA: D DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Cl: Q

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: Part No. NCR No.	DISPOSITION				AGAINST DEPARTMENT/PROCESS													
	Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Suspected Unapproved <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector									
Design																		
Doc/Data																		
Equip/Tooling																		
Handling/Pre																		
Material																		
Operator																		
Offset/Setup																		
Process																		
Supplier																		
Training																		
Transport																		
Unapproved																		
FAULT CATEGORY																		
Landing Gear			General															
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Folio/Program		<input type="checkbox"/> Outside Dimensions		<input type="checkbox"/> Pressure/Forced												
<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain		<input type="checkbox"/> Over/Under tolerance		<input type="checkbox"/> Set-up												
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Hardware		<input type="checkbox"/> Part Incorrect		<input type="checkbox"/> Temperature/Cure												
<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Burrs	<input type="checkbox"/> Inspection Incomplete/Unqualified		<input type="checkbox"/> Part Lost/Missing		<input type="checkbox"/> Weld												
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Instructions Incomplete/Unclear		<input type="checkbox"/> Part Moved		<input type="checkbox"/> Wrong Stock Pulled												
<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misaligned/off center		<input type="checkbox"/> Positioned Wrong		<input type="checkbox"/> Other												
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled		<input type="checkbox"/> Power Loss/Surge														
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Drawing	<input type="checkbox"/> Misread																
<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Off-set																
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Calibration																
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Out of Sequence																

Picklist Print

June-16-14 2:25:43 PM

Page 1

Work Order ID: 121189

121189

Parent Item: 647.3911

647.3911

Parent Item Name: 212 Upper Deflector

Start Date: 6/09/14

Required Date: 6/16/14

Start Qty: 19.00

Required Qty: 19.00

Comments: IPP REV. A NEW ISSUE JFS 14/05/21 VERIFIED BY: JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M7075T6B0.375X6.000		Purchased	No			100	f	27.0000	1.422	29			

M7075T6B0.375X6.000

7075-T6 BAR 0.375" X 6.000"

14/07/26

Location

Loc Qty

Loc Code

MAT049

27

→ M128038

27

→ M129891

22.7833 ft
5.6958 ft

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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DART AEROSPACE LTD		Work Order: 121189
Description: DEFLECTOR		Part Number: 647.3911
Inspection Dwg: 647.3900 Rev: C		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
.125 X 45°	±.005 X ± 1/2°	.125 X 45°	—		Vern	ML-06
Ø.177	±.005 ±.001	Ø.177	—		"	
2.110	±.002	2.110	—		"	
4.220	±.002	4.220	—		"	
.700	±.005	.702	—		"	
.340	±.000 ±.002	.340	—		"	
.035 X 45°	±.005 X ± 1/2°	.035 X 45°	—		"	
.375	±.005	.380	—		"	
15.896	±.005	15.896	—		H-G	31006
.312	±.005	.312	—		C-Square	
6.446	±.005	6.446	—		H-G	31006
15.046	±.005	15.045	—		"	
Ø.189	±.005 ±.001	Ø.189	—		Vern	ML-06
35.8°	± 1/2°	35.8°	—		C-Square	
40.2°	± 1/2°	40.2°	—		"	

Measured by: <i>AK</i>	Audited by: <i>MH</i>	Preliminary Approval:
Date: 14/07/29	Date: 14/07/30	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

10.04.15

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04250

SHEET 1 OF 3

DWG NO. 647.3900

REV: B

PREPARED BY J. SOTO

DATE: 11/18/2013

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: DEFLECTORS

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]* QC *[Signature]*

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED PART 647.3915 INTO ASSY 647.3903. REVISED SHEET 7 AND ADDED SHEETS 8, 9, 11, 12. ADDED NOTES 7-9. REVISED F/N 3-9 AND ADDED F/N 10-13. ADDED NOTE 7 IN ORDER TO HANG PARTS FOR FINISHING PURPOSES. FIXED NOTES ON ASSY 647.3901

ECR:
13-038, 12-026

SHEET 1, ZONE C7 WAS:

NOTES:

- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
PRETREAT PR-148 ADHESION PROMOTER
PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX.
3. DEBURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120.
- 5 APPLY F/N 3 AS REQUIRED TO ALL FAYING SURFACES OF F/N 6, 7 & 8 UPON ASSY.
- 6 MAXIMUM OR MINIMUM DIMENSION AFTER FINISH.

WAS

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 121189 MLC
140618

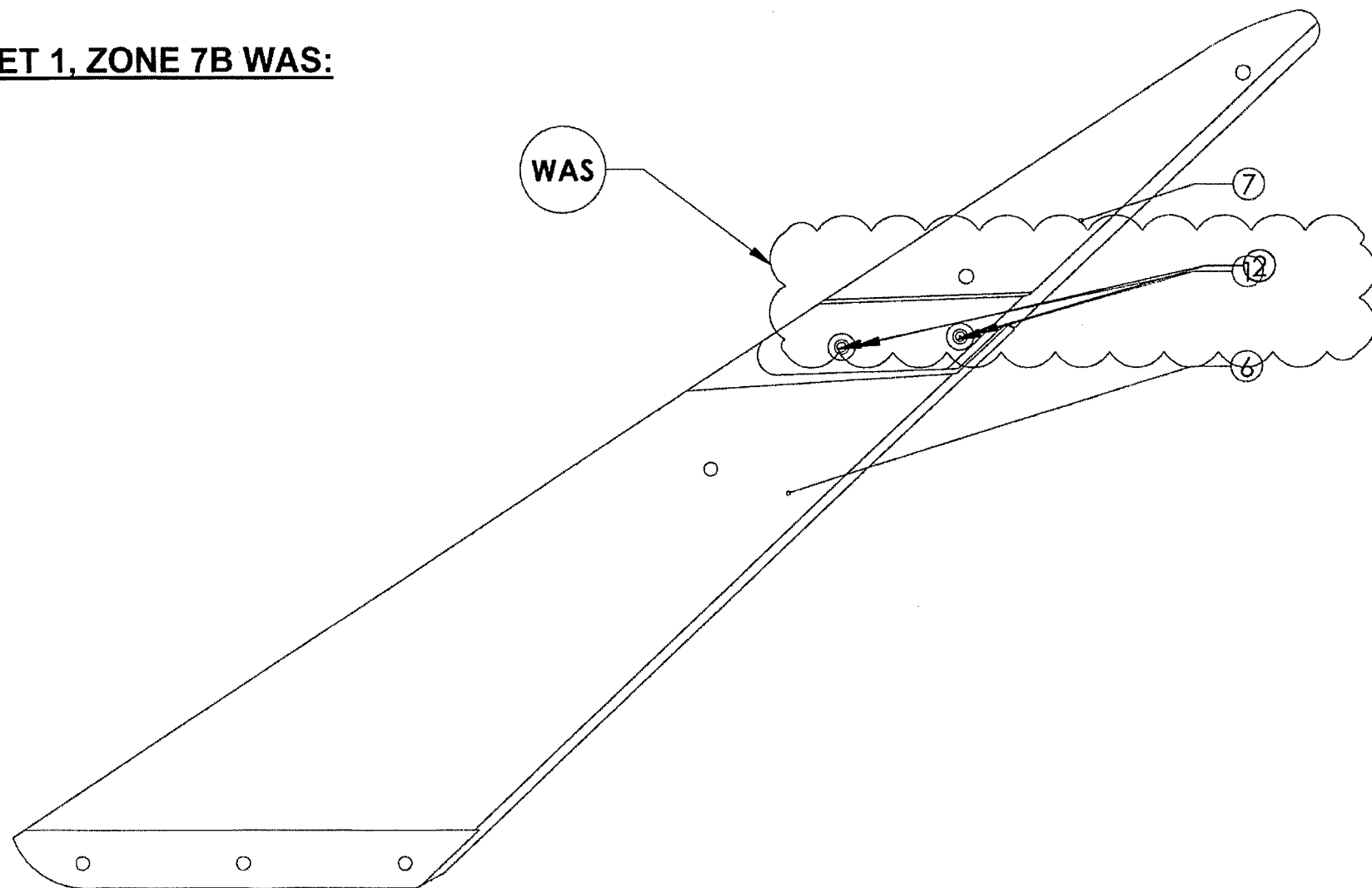
12	A	601.3072	6			RIVET	CR3213-6-9	
11	C	647.3917	2			DOUBLER		
10	C	647.3916	1			DEFLECTOR, UPPER HALF	△	△2
9	R	647.3915	1			DEFLECTOR, LOWER HALF	△	△2
8	R	647.3914		1		BREAKAWAY TIP LONG	△	△2△
7	R	647.3913			1	BREAKAWAY TIP MEDIUM	△	△2△
6	R	647.3912		1	1	LOWER DEFLECTOR	△	△2△
5	R	647.3911				212 UPPER DEFLECTOR	△	△2△
4	R	647.3910				412 UPPER DEFLECTOR	△	△2△
3	R	601.2045	A/R	A/R	A/R	RTV, LOCTITE 598		△5
	C	647.3903	X			DEFLECTOR ASSY		△8
F/N	TC	PART NUMBER	.3903	.3902	.3901			
			QTY			DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

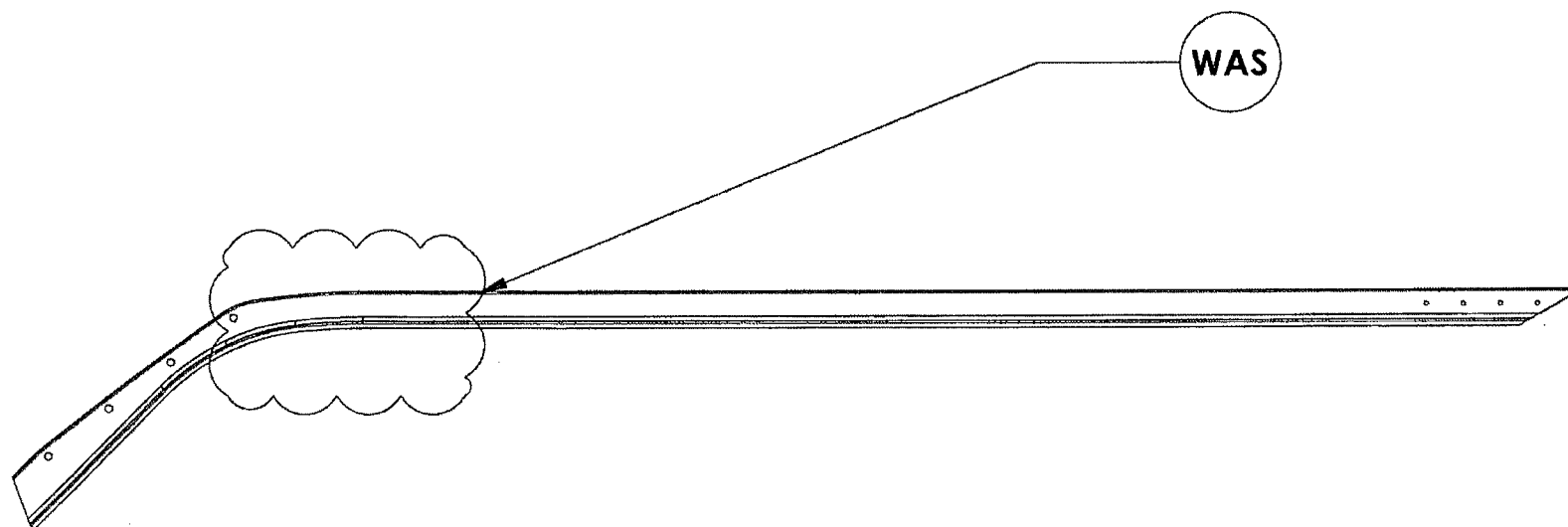
☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

SHEET 1, ZONE 7B WAS:

647.3901

SHEET 7, ZONE A6 WAS:

647.3915

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NOTES:

1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.

2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;

3. DEBURR AND BREAK ALL SHARP EDGES.

4. IDENTIFY IAW MPP-120.

5 APPLY F/N 3 AS REQUIRED TO ALL FAYING SURFACES OF F/N 6, 7 & 8 UPON ASSY.

6 MAXIMUM OR MINIMUM DIMENSION AFTER FINISH.

7. .0625 HOLE MAY BE ADDED FOR FINISHING PURPOSES

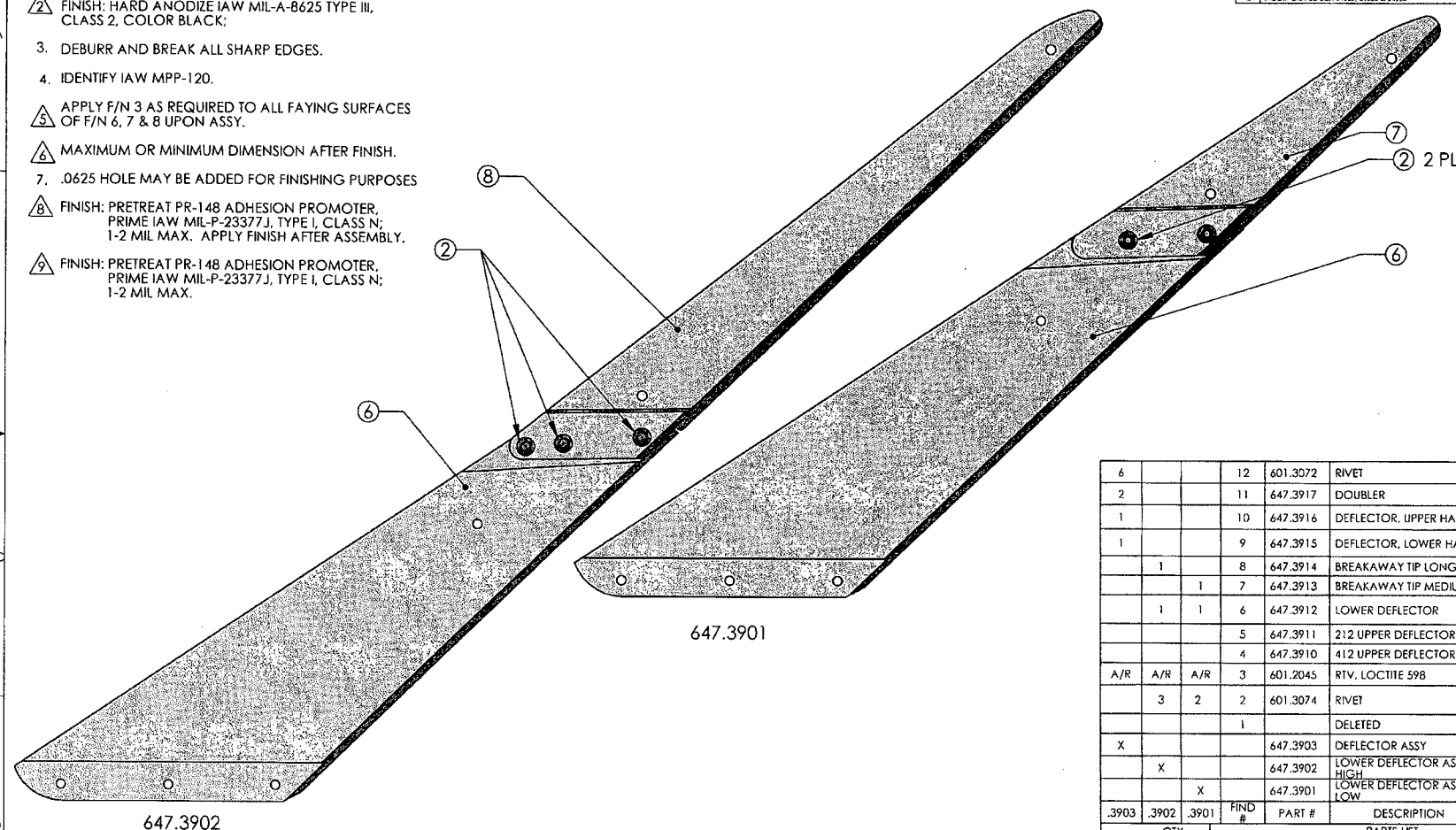
8 FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N; 1-2 MIL MAX. APPLY FINISH AFTER ASSEMBLY.

9 FINISH: PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N; 1-2 MIL MAX.

REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE RELEASE: PRI		RVC
2	FINAL RELEASE	09/10/09	P. BRAVO
3	INCORPORATED ECH 0284, 0337 & 03913	07/24/12	P. BRAVO
4	INCORPORATED ECH 04025	08/02/13	P. BRAVO
5	INCORPORATED ECH 04038, 04085 & 04230	11/18/13	P. BRAVO

6			12	601.3072	RIVET	CR3213-6-9	
2			11	647.3917	DOUBLER		
1			10	647.3916	DEFLECTOR, UPPER HALF	△	△
1			9	647.3915	DEFLECTOR, LOWER HALF	△	△
	1		8	647.3914	BREAKAWAY TIP LONG	△	△△
		1	7	647.3913	BREAKAWAY TIP MEDIUM	△	△△
	1	1	6	647.3912	LOWER DEFLECTOR	△	△△
			5	647.3911	212 UPPER DEFLECTOR	△	△△
			4	647.3910	412 UPPER DEFLECTOR	△	△△
A/R	A/R	A/R	3	601.2045	RTV, LOCTITE 598		△
	3	2	2	601.3074	RIVET	MS20470AD 6-12	
			1		DELETED		
X				647.3903	DEFLECTOR ASSY		△
	X			647.3902	LOWER DEFLECTOR ASSY HIGH		
		X		647.3901	LOWER DEFLECTOR ASSY LOW		

QTY	FIND #	PART #	DESCRIPTION	MAT'L	SPEC
3903	3902	3901			
PARTS LIST					
NEXT ASSY (S)			ORIGINAL DATE		
647.3800			DRAWN BY: T. C. CROCKER		
			DESIGNED BY: D. B. KATNER		
			DRAWING APPROVAL: P. BRAVO		
			DATE: 09-10-09		
			CONTRACT NO.		
			UNLESS OTHERWISE SPECIFIED		
			DIMENSIONS ARE IN INCHES		
			TOLERANCES ARE:		
			2 PLACE DECIMALS ± .01		
			3 PLACE DECIMALS ± .005		
			ANGLES ± .5°		
			SEE CASE CODE: DNG. NO. 647.3900		
			SCALE: NONE		
			SHEET 1 OF 12		



APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300

DEFLECTORS

REV. C
SHEET 1 OF 12

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.125 X 45.0° TYP

SECTION B-B

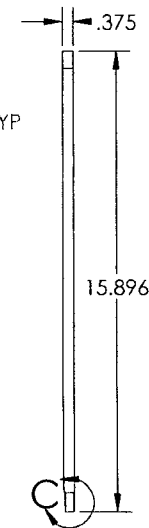
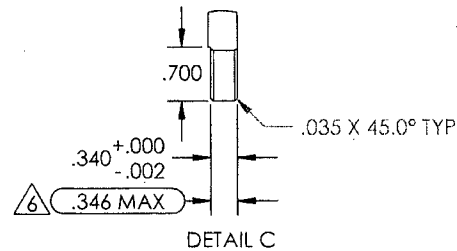
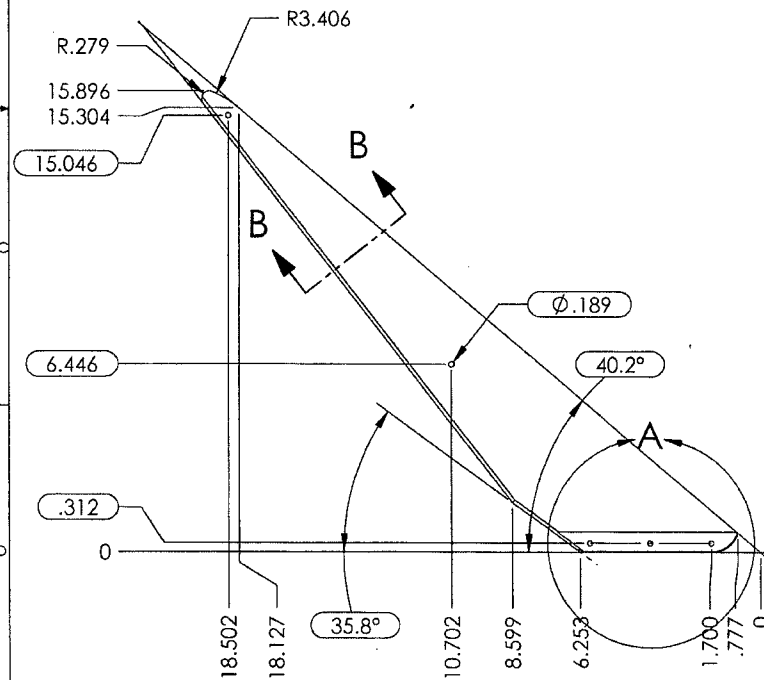
Ø.177 THRU 3PL

.266 X 17.9°

DETAIL A

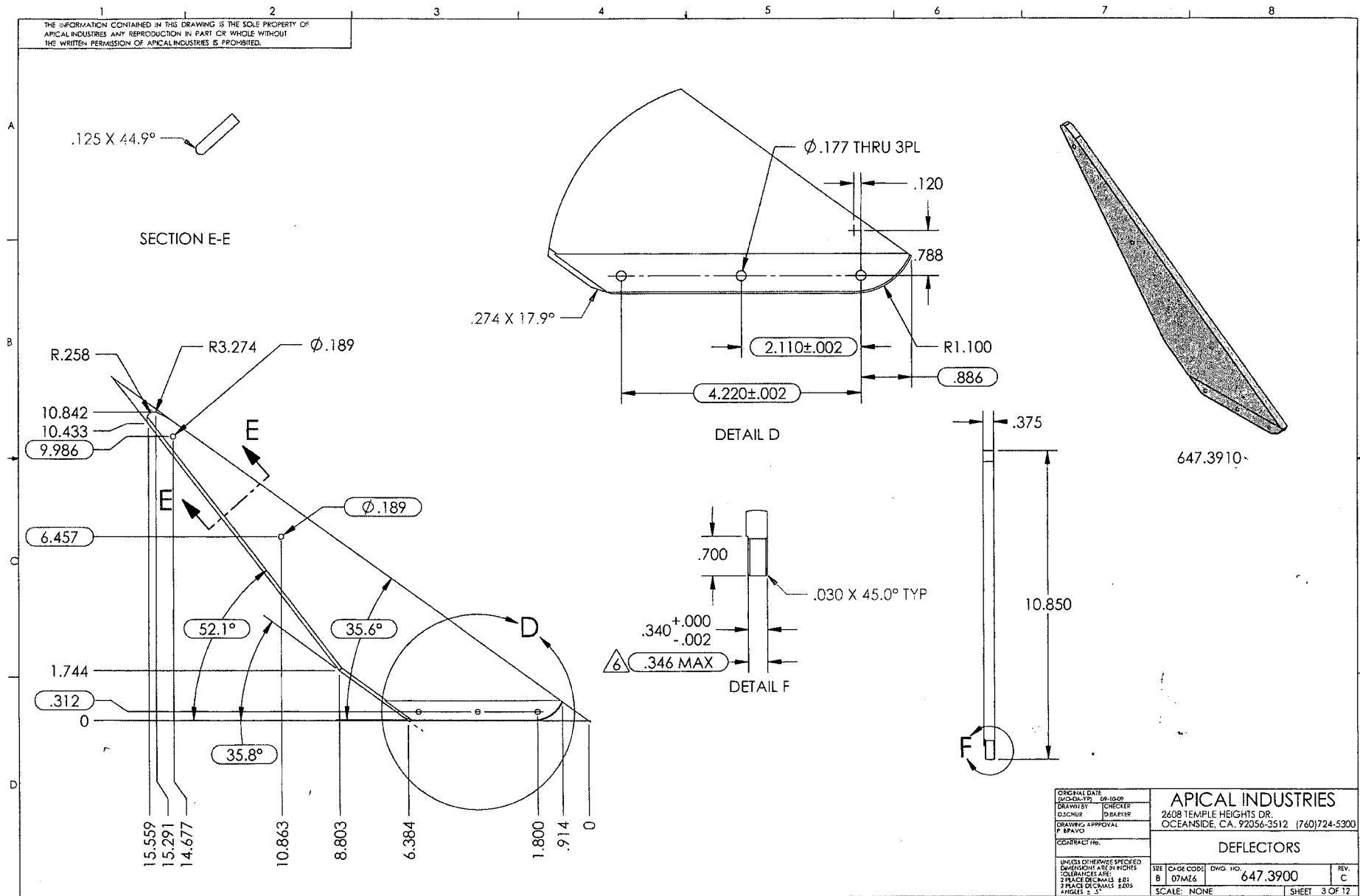
DETAIL C

647.3911



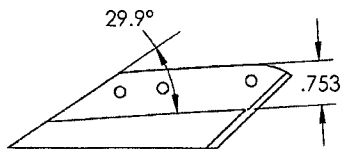
ORIGINAL DATE 11-01-1991		APICAL INDUSTRIES	
DRAWN BY D.SCHUB	CHECKED D.BARKER	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWINGS APPROVAL P. BARKER		DEFLECTORS	
CONTRACT NO.		REV R	C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		DWG. NO. 647.3900	REV C
SCALE NONE		SHEET 2 OF 12	

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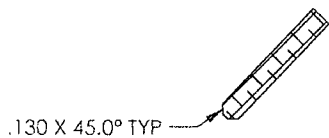


ORIGINAL DATE 10-10-09		APICAL INDUSTRIES	
DRAWN BY DLSCHUR	CHECKED DLSCHUR	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAYO		DEFLECTORS	
CONTRACT NO.		647.3900	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SER. CODE B 07M26	REV. C
SCALE: NONE		SHEET 3 OF 12	

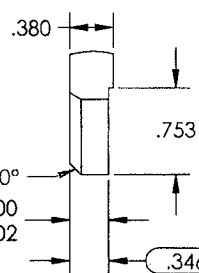
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SECTION L-L

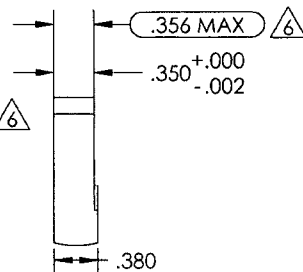


SECTION M-M

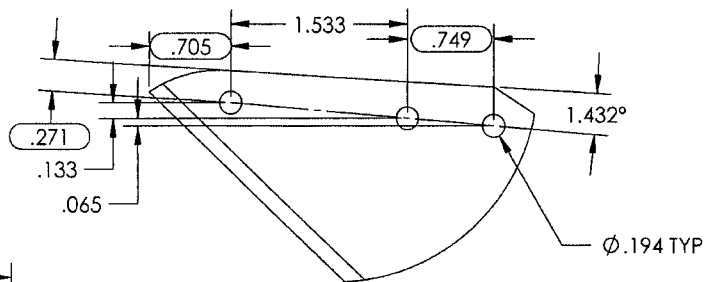


DETAIL J

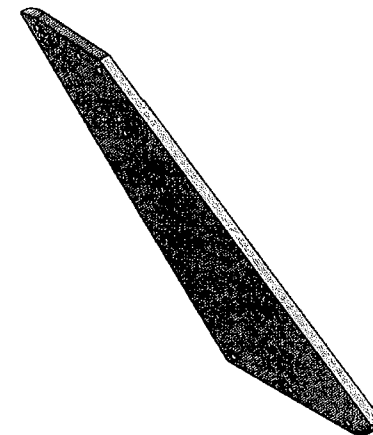
$\phi .177$



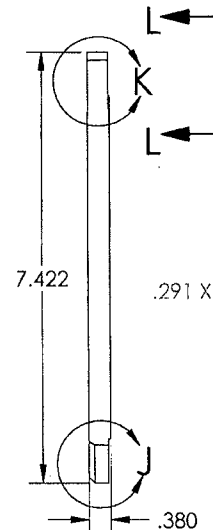
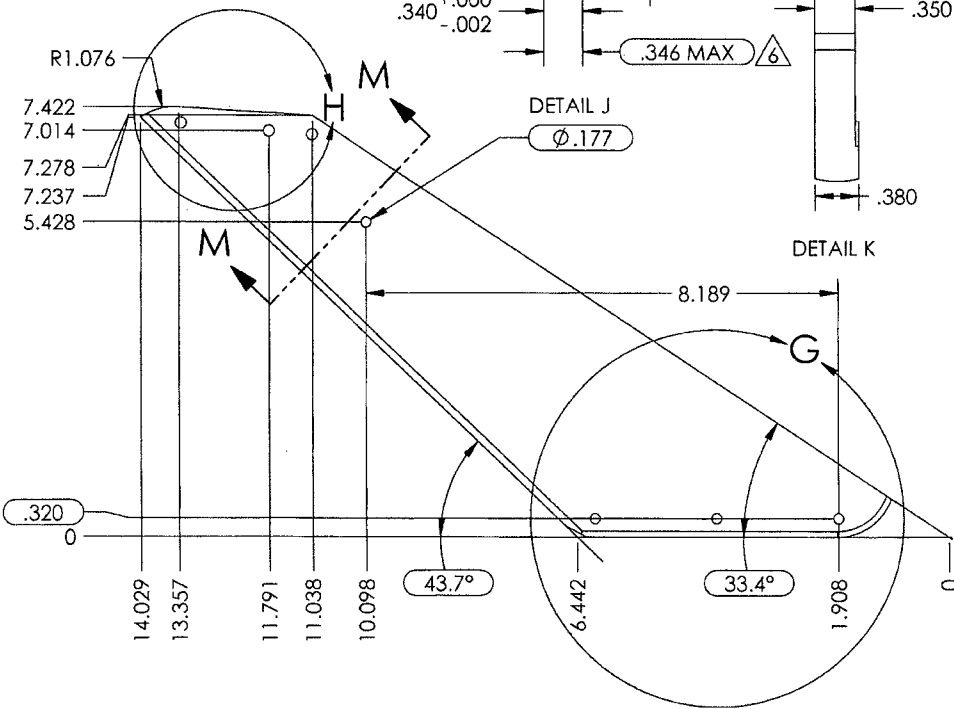
DETAIL K



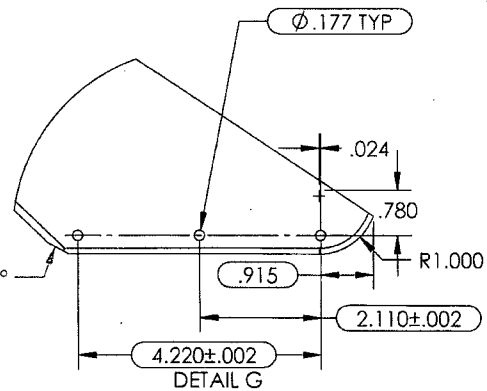
DETAIL H



647.3912



DETAIL G



ORIGINAL DATE
10/13/10
DRAWN BY
D. SCHUR
CHECKED BY
D. BAYNE
DRAWING APPROVAL
P. BRADY
DATE
02/10/12

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
3 PLACE DECIMALS \pm .01
3 PLACE DECIMALS \pm .005
ANGLES \pm .2°

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300
DEFLECTORS
SHEET 4 OF 12
SCALE NONE

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SECTION N-N

SECTION AD-AD

DEFLECTORS

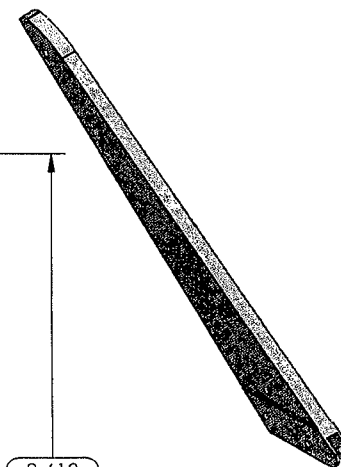
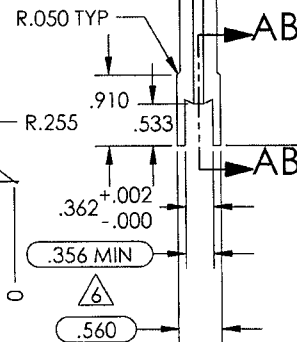
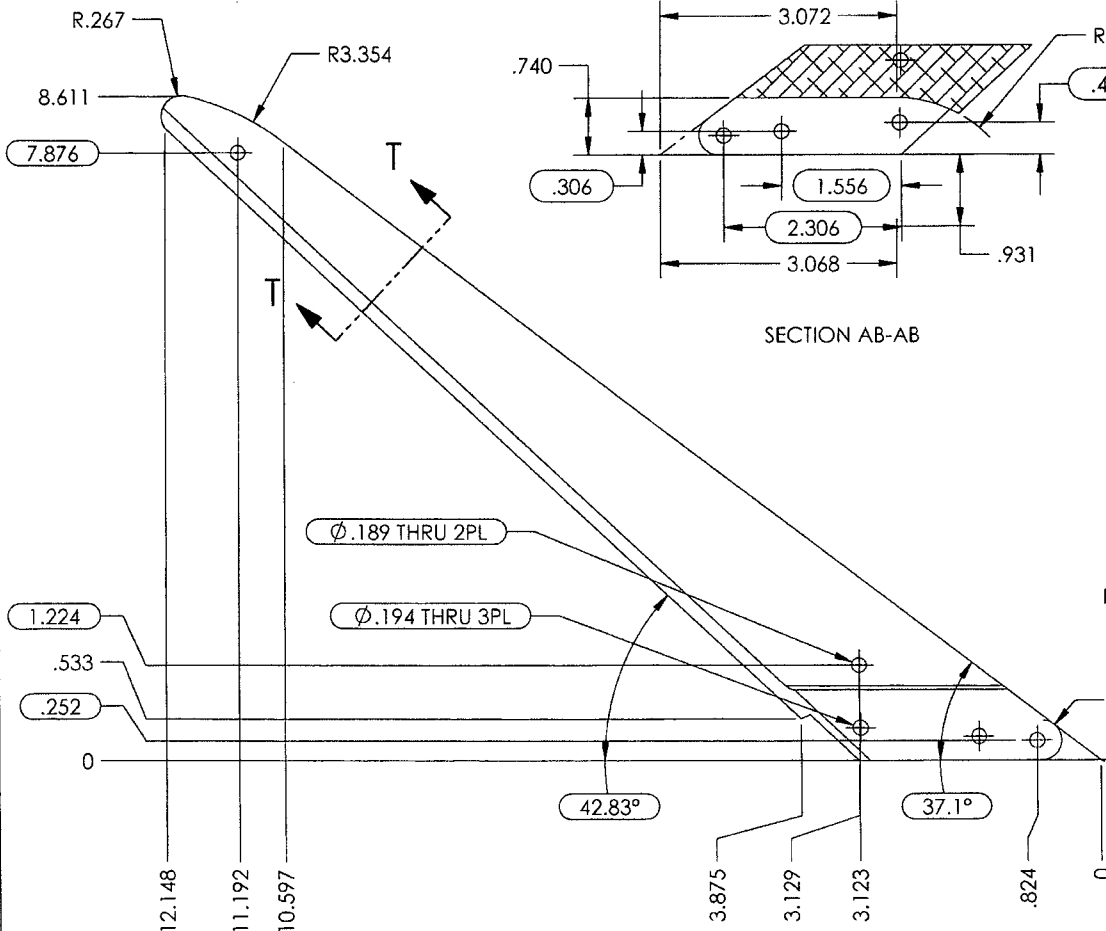
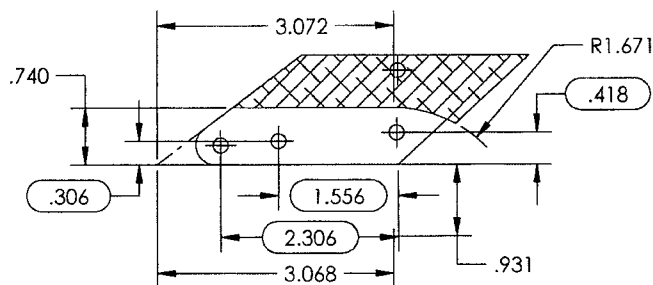
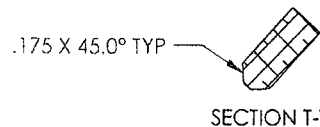
APICAL INDUSTRIES
2408 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300

647.3913

647.3900

5 OF 12

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647.3914

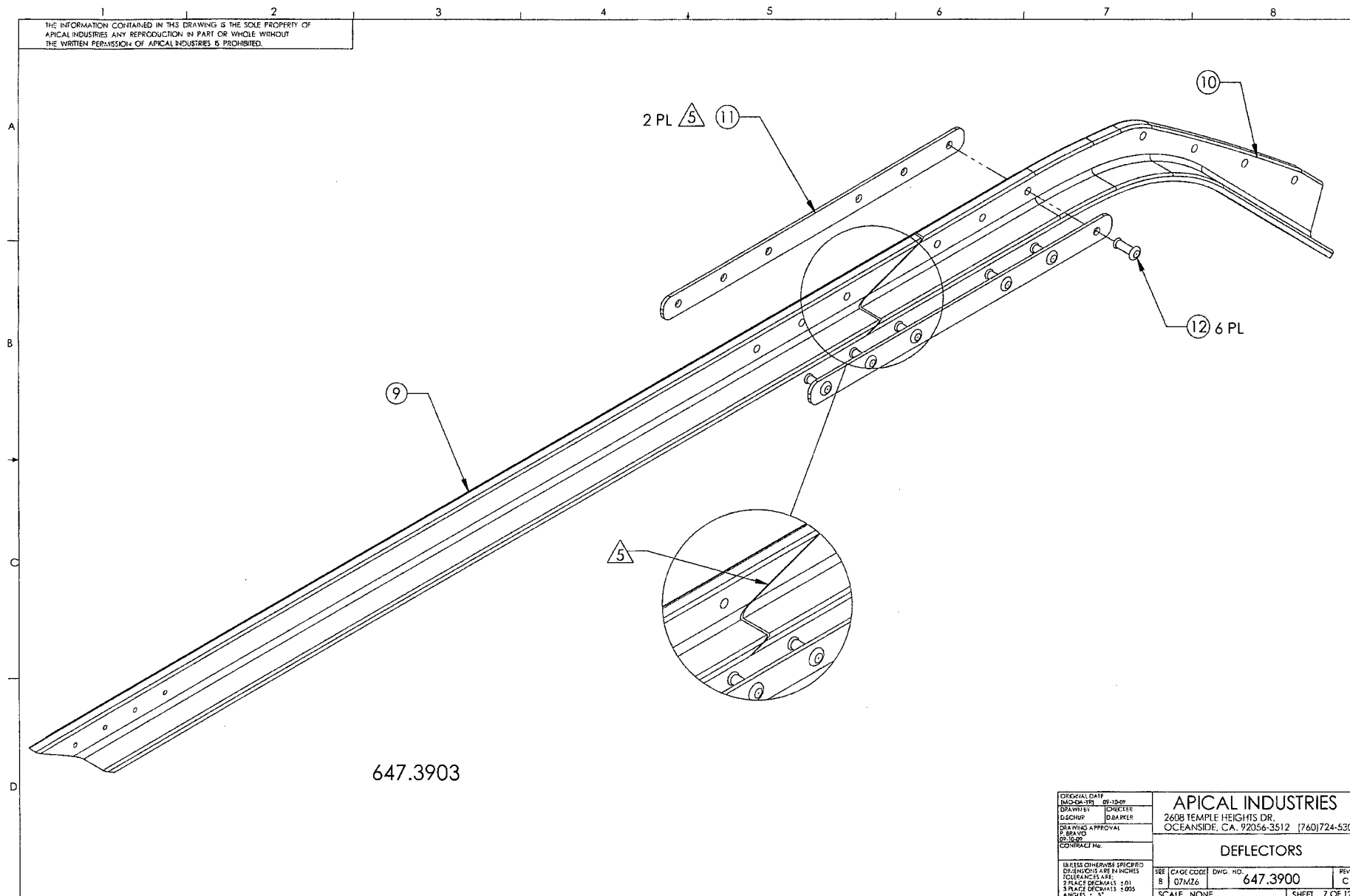
ORIGINAL DATE
1-20-04 151 09:10:00
DRAWN BY
D.SCHUR
CHECKED
D.BARTER
DRAWING APPROVAL
A. RIVERO
DATE
CONTRACT NO.

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

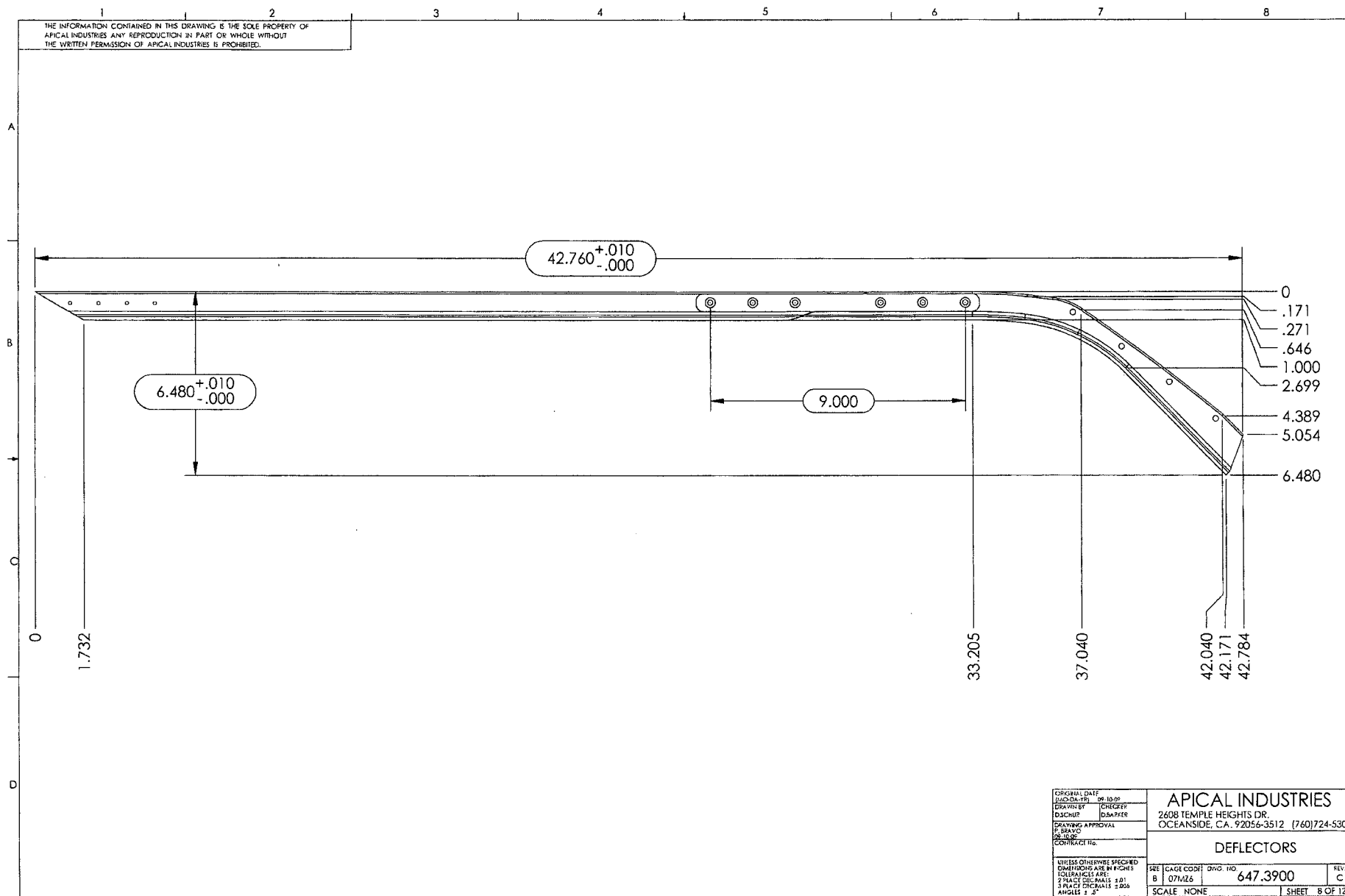
SHEET	CAGE CODE	DWG. NO.	REV.
B	07M16	647.3900	C
SCALE NONE		SHEET 6 OF 12	

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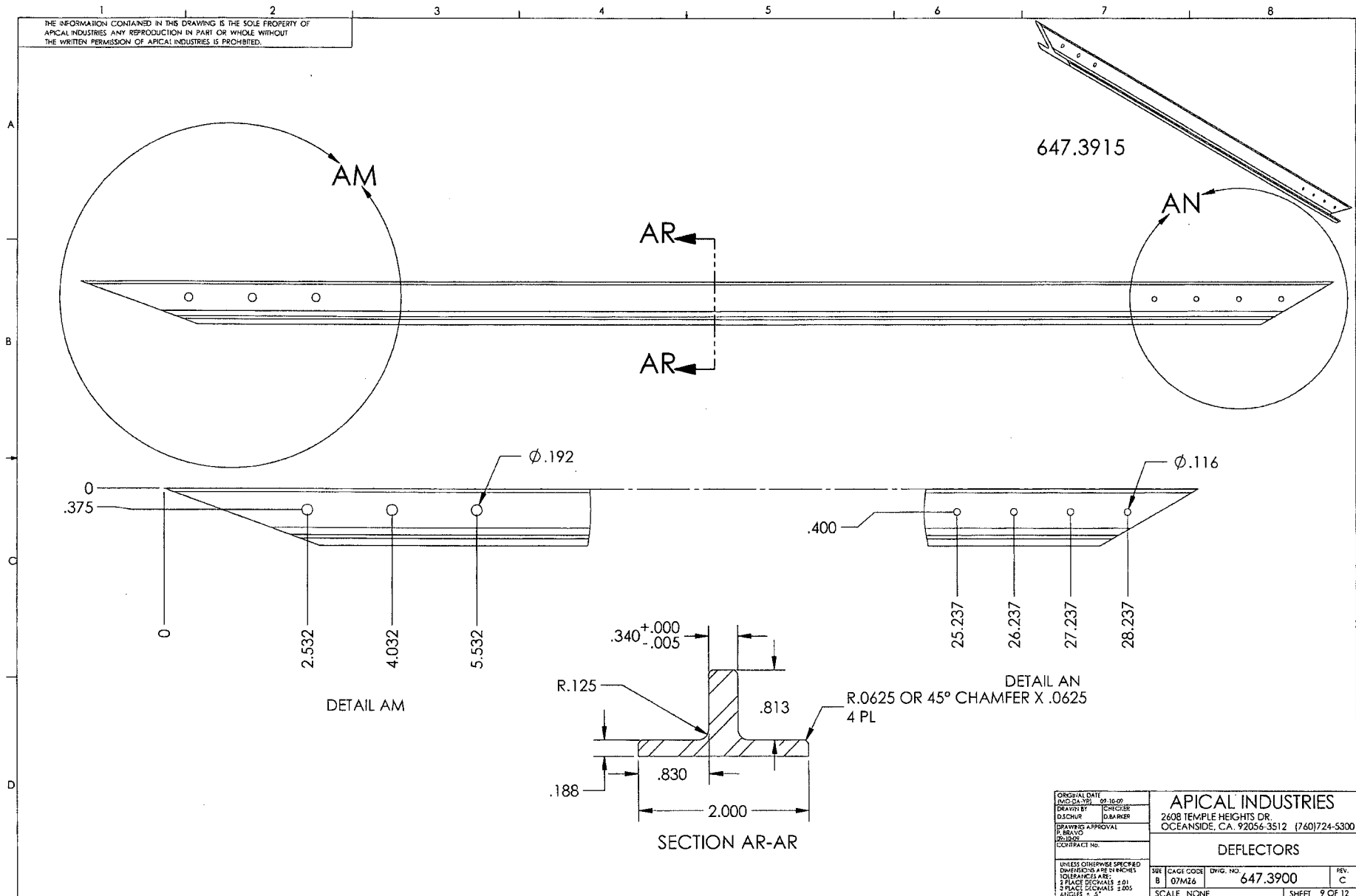
OFFICIAL DATE (MM-DD-YY) 09-10-09 DRAWN BY J. SCHUP CHECKED BY J. BLANER DRAWING APPROVAL P. BAYO 09-10-09 CONTRACT No.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR OCEANSIDE, CA 92056-3512 (760)724-5312 DEFLECTORS 358 C CAG CODE DWG. NO. REV 07/01/6 647.3900 C SCALE NONE 1 SHEET 2 OF 2
ITEMS CHANGED SPECIFIED CHANGES ARE IN BRACKETS TOLERANCES ARE: 1 ANGLES .015" 3 PLATE DIMS 1/32" DIMS 1/64"	

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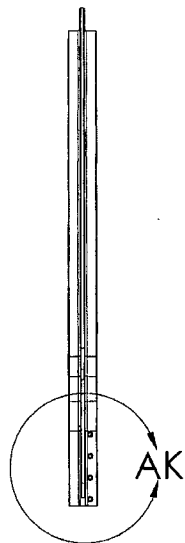
ORIGINAL DATE (DD-MO-YY) 08-10-00		APICAL INDUSTRIES	
DRAWN BY D.SCHUR		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300	
CHECKED BY D.SCHUR		DEFLECTORS	
DRAWING APPROVAL P. BRAY		DRAWG. NO. 647.3900	
CONTRACT NO.		REV. C	
UNLESS OTHERWISE SPECIFIED OVERLAPPING ARE IN P-FILES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE SHEET 8 OF 12	

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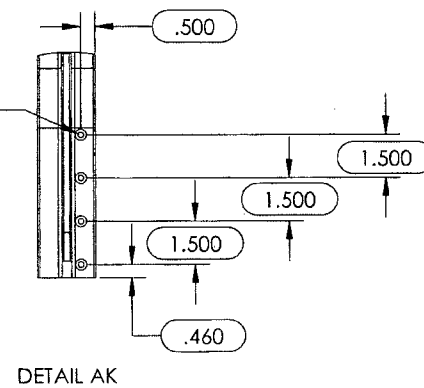


ORIGINAL DATE 07-10-97		APICAL INDUSTRIES	
DRAWN BY D.SCHUR		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY D.BARKER		DEFLECTORS	
DRAWING APPROVAL P. BRAVO		SCALE NONE	
CONTRACT NO.		SHEET 9 OF 12	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS $\pm .01$ 2 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		REV. C	

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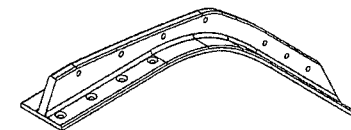
4X $\varnothing .196 \pm .010$ THRU ALL
 $\checkmark \varnothing .385 \pm .020 \times 100^\circ \pm 1.000^\circ$



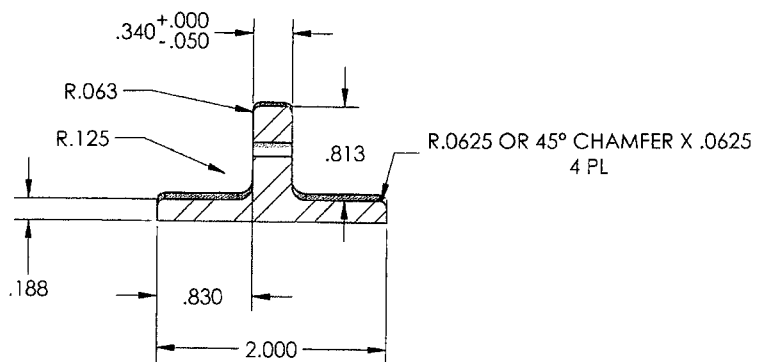
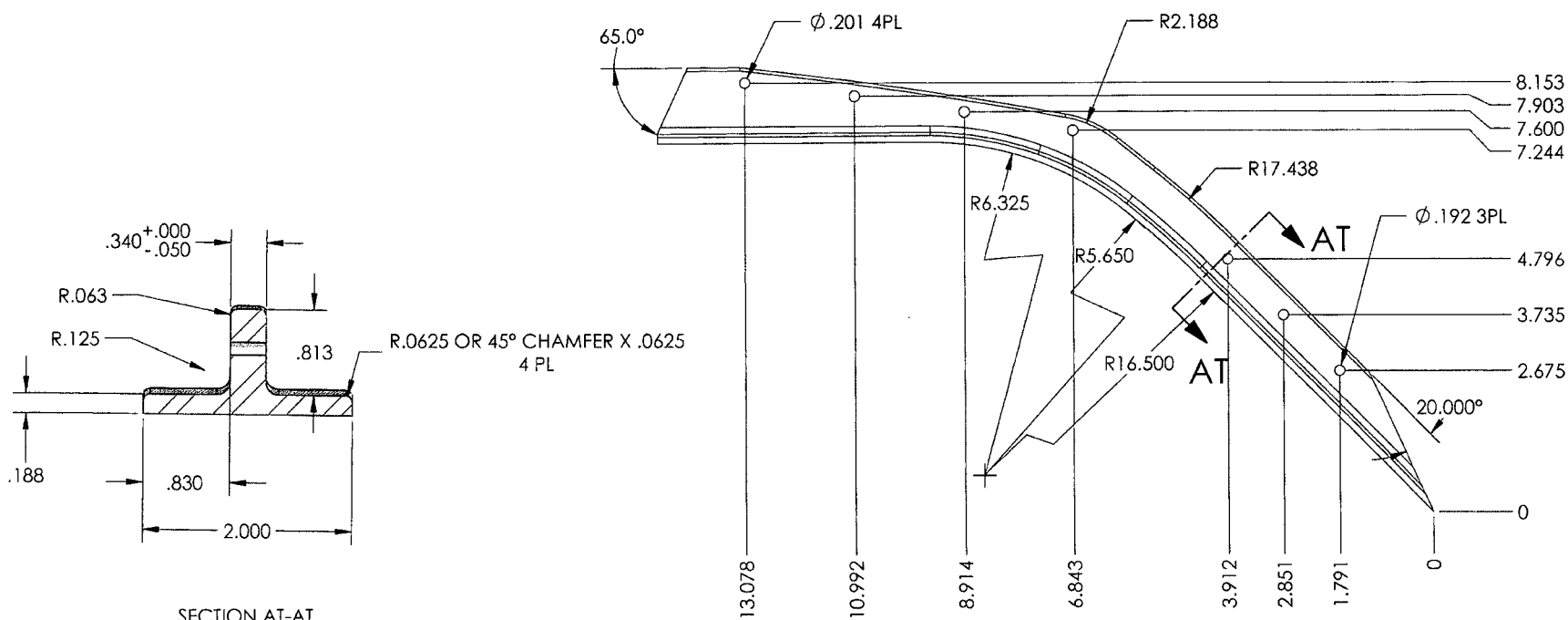
647.3915

OPERATOR DATE: 07-10-07 DRAWN BY: D. BARKER CHECKED BY: D. BARKER DRAWING APPROVAL: 07-10-07 CONTRACT NO.:		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		SHEET CODE: B DWG. NO: 647.3900 SCALE: NONE	REV. C SHEET 10 OF 12

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647.3916



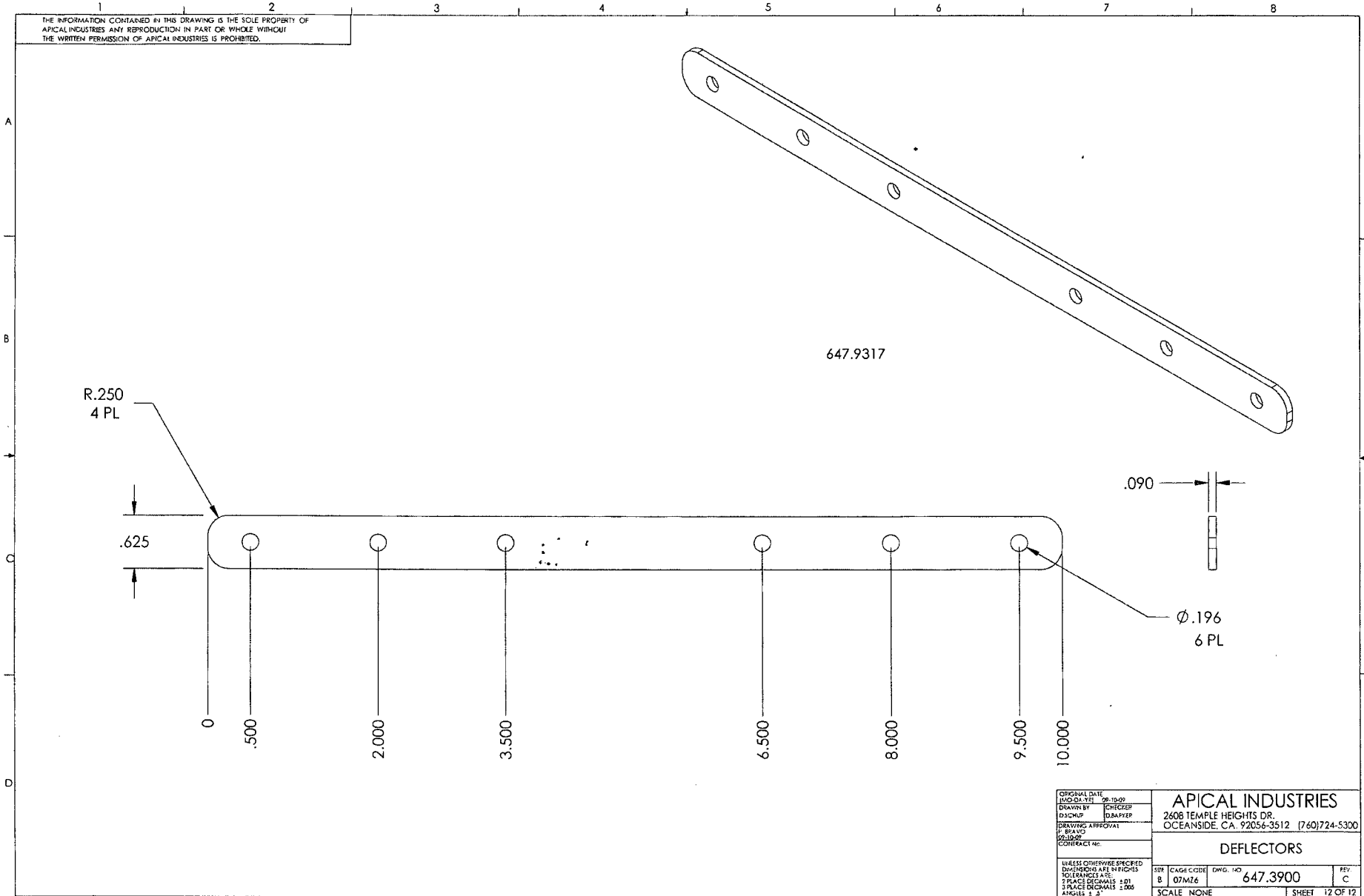
SECTION AT-AT

ORIGINAL DATE 08-22-1988		08-10-88		
DRAWN BY CLONIS	CHECKER DIABER	<div>APICAL INDUSTRIES</div> <div>2608 TEMPLE HEIGHTS DR.</div> <div>OCEANSIDE, CA. 92056-3512 (760)724-5300</div> <div>DEFLECTORS</div>		
DRAWING APPROVAL P. BRAVO				
REVISOR CONTRACT NO.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.2°				
SHEET B	DWG. NO. 07MZ6			REV. C
SCALE NONE				SHEET 11 OF 12

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

DEFLECTORS

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ORIGINAL DATE 10-24-91 09:15:00		APICAL INDUSTRIES	
DRAWN BY: JCHICER		2608 TEMPLE HEIGHTS DR.	
DESCRIBED BY: JCHICER		OCEANSIDE, CA 92056-3512 (760)724-5300	
DRAWING APPROVAL		DEFLECTORS	
BY: BIAVO		SHEET 12 OF 12	
CONTRACT NO:			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.01 ANGLES ±.5°		REV: C	
8	07M26	DWG. NO. 647.3900	
SCALE: NONE			



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO25229**

Purchase Order Date 7/30/2014

PO Print Date 7/31/2014

Page Number 5 of 8

Order From :

VC-ATG001

Ship To : DART AEROSPACE LTD

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

613-446-4544

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

12 121189

647.3911 UPPER
DEFLECTOR

8/15/2014

Yes

8/15/2014

20.00 ✓

\$0.00

\$0.00

SP14-8-19.

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

Line Total:

\$0.00

13 121086

647.4210 BRACKET

8/15/2014

Yes

8/15/2014

16.00 ✓

\$0.00

\$0.00

SP14-8-18

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

Line Total:

\$0.00

14 120749

647.4210 BRACKET

8/15/2014

Yes

8/15/2014

16.00 ✓

\$0.00

\$0.00

SP14-8-18.

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-P-23377J TYPE 1 CLASS N

Line Total:

\$0.00

Note:

7/31/2014



A.T.G. Industries Inc.
731, rue Industrielle Rd.
PLATING DEPARTMENT
Rockland, On K4K 1T2
Canada

Ph: (613) 446-4544
Fax: (613) 446-4556

Pack List

Number: 63206

Date: 15-Aug-14

To

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7
Canada

Ship To

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

Terms		Ship Via	
Quantity	Description	Rev:	Line:
4 ea	Part: 646.3310 LH HALF HARD ANODIZE AS PER MIL-A-8625 TY II, CLASS 2 PRIME AS PER MIL-P-23377J TYPE I CLASS N PRIMER IS SUPPLY BY THE CUSTOMER Job: 20140493 PO: PO25229		
10 ea	Part: 646.3312 CENTER PLATE HARD ANODIZE AS PER MIL-A-8625 TY II, CLASS 2 PRIME AS PER MIL-P-23377J TYPE I CLASS N PRIMER IS SUPPLY BY THE CUSTOMER Job: 20140494 PO: PO25229		
✓ 20 ea	Part: 647.3911 UPPER DEFLECTOR HARD ANODIZE AS PER MIL-A-8625 TY II, CLASS 2 PRIME AS PER MIL-P-23377J TYPE I CLASS N PRIMER IS SUPPLY BY THE CUSTOMER Job: 20140495 PO: PO25229		
32 ea	Part: 647.4211 RAIL HARD ANODIZE AS PER MIL-A-8625 TY II, CLASS 2 PRIME AS PER MIL-P-23377J TYPE I CLASS N PRIMER IS SUPPLY BY THE CUSTOMER Job: 20140498 PO: PO25229		
44 ea	Part: 647.9018 DOUBLER HARD ANODIZE AS PER MIL-A-8625 TY II, CLASS 2 PRIME AS PER MIL-P-23377J TYPE I CLASS N		

SPIC-8-19